

### **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

#### **Claims:**

1. (Previously Presented) A method of stimulating a section of a subterranean formation comprising the steps of:

(a) forming at least a portion of a well bore that at least penetrates a section of the subterranean formation using a drilling operation;

(b) stimulating a section of the subterranean formation using a stimulation tool interconnected with a drill string located in the portion of the well bore and used in the drilling operation, wherein the stimulating is initiated without removal of the drill string from the portion of the well bore after using the drill string to form the portion of the well bore, the stimulating comprising jetting a stimulation fluid through at least one port in the stimulation tool against the section of the subterranean formation at a pressure sufficient to create at least one cavity in the section of the subterranean formation; and

(c) continuing the drilling operation.

2. (Previously Presented) The method of claim 1 wherein step (c) includes removing the drill string from the well bore.

3. (Currently Amended) The method of claim 1 wherein the drilling operation comprises at least one drilling operation ~~is~~ selected from the group consisting of: a rotary drilling operation, a cable-tool drilling operation, a hydrajert drilling operation, and a laser drilling operation.

4-7. (Canceled)

8. (Previously Presented) The method of claim 1 further comprising the step of pumping a second fluid into an annulus, wherein the annulus is formed between a wall of the well bore and a drill string that is disposed in the well bore.

9. (Previously Presented) The method of claim 1 further comprising the step of shutting an annulus, wherein the annulus is formed between a wall of the well bore and a drill string that is disposed in the well bore.

10. (Previously Presented) The method of claim 1 further comprising the step of introducing a cleaning fluid into the well bore.

11. (Previously Presented) The method of claim 1 wherein step (a) includes the use of a drilling fluid.

12. (Canceled)

13. (Previously Presented) The method of claim 1 wherein the stimulation fluid comprises an unweighted drilling fluid.

14. (Currently Amended) The method of claim 1 wherein the stimulation fluid comprises at least one ~~an~~-additive selected from the group consisting of: an abrasive, a proppant, an acid, a chemical, and any mixture[[s]] thereof.

15. (Original) The method of claim 14 wherein the chemical is a relative permeability modifier.

16. (Currently Amended) The method of claim 1 wherein the stimulation fluid comprises at least one fluid selected from the group consisting of: is an aqueous-based fluid, a gas, and ~~or~~ a foamed fluid.

17. (Previously Presented) The method of claim 1 wherein a fluid jet forming nozzle is connected within the at least one port.

18. (Previously Presented) The method of claim 17 wherein the stimulation fluid is jetted through the fluid jet forming nozzle against the section of the subterranean formation at the pressure sufficient to form the cavity in the section of the subterranean formation.

19. (Original) The method of claim 18 further comprising the step of pumping a second fluid into an annulus to enhance the stimulation of the cavity, wherein the annulus is formed between a wall of the well bore and a drill string that is disposed in the well bore.

20. (Previously Presented) The method of claim 19 wherein the second fluid is pumped into the annulus at a rate sufficient to raise the ambient pressure in the well bore adjacent to the section of the subterranean formation to a level sufficient to enhance the stimulation of the cavity in the section.

21. (Original) The method of claim 18 further comprising the step of shutting an annulus, wherein the annulus is formed between a wall of the well bore and a drill string that is disposed in the well bore.

22. (Previously Presented) The method of claim 1 further comprising the step of opening the at least one port prior to the step of jetting the stimulation fluid through the at least one port.

23. (Original) The method of claim 22 wherein the step of opening the at least one port includes a sliding sleeve.

24. (Original) The method of claim 22 wherein the step of opening the at least one port includes a mechanical-activation mechanism or a flow-activation mechanism.

25. (Previously Presented) The method of claim 1 further comprising the steps of:  
positioning the stimulation tool in the well bore adjacent to a second section of the subterranean formation to be stimulated; and

flowing a stimulation fluid through the at least one port to stimulate the second section of the subterranean formation.

26. (Original) The method of claim 1 further comprising the step of sealing the zone in the subterranean formation that was stimulated.

27. (Currently Amended) The method of claim 26 wherein the step of sealing the zone in the subterranean formation that was stimulated includes the use of at least one material selected from the group consisting of: a degradable sealant, a fluid, a solid, and ~~or any~~ combination thereof.

28. (Currently Amended) The method of claim 27 wherein the fluid comprises at least one fluid selected from the group consisting of: is a cement composition ~~or~~ and a gel.

29. (Currently Amended) The method of claim 27 wherein the solid comprises at least one degradable solid selected from the group consisting of: colemanite, a benzoic acid flake, rock salt, a paraffin bead, and calcium carbonate.

30. (Currently Amended) The method of claim 27 wherein the degradable sealant comprises at least one degradable material selected from the group consisting of: a polysaccharide[.,,]; a chitin[.,,]; a chitosan[.,,]; a protein[.,,]; an aliphatic polyester[.,,]; a

poly(lactide); a poly(glycolide); a poly( $\epsilon$ -caprolactone); a poly(hydroxybutyrate); a poly(anhydride); an aliphatic polycarbonate; an ortho ester; a poly(orthoester); a poly(amino acid); a poly(ethylene oxide); and a poly(phosphazene).

31. (Currently Amended) A method of stimulating a ~~section of a~~ subterranean formation comprising the steps of:

(a) providing a drill string that comprises a stimulation tool interconnected as a part of the drill string and a drill bit attached at an end of the drill string;

(b) drilling at least a portion of the well bore using the drill string, wherein the well bore penetrates the subterranean formation; and

(c) stimulating multiple sections of the subterranean formation using the stimulation tool as the drill string is removed from the well bore.

32-34. (Canceled)

35. (Currently Amended) The method of claim 31 wherein stimulating multiple sections of the subterranean formation comprises at least one stimulation operation selected from the group consisting of: an acoustic stimulation, a fracturing operation, an acid squeeze operation, a fracture acidizing operation, a chemical squeeze operation, a chemical wash operation, and an acid wash operation.

36. (Original) The method of claim 31 wherein the stimulation tool comprises at least one port.

37. (Previously Presented) The method of claim 36 wherein stimulating multiple sections of the subterranean formation comprises the steps of:

positioning the stimulation tool in the well bore adjacent to a first section of the subterranean formation to be stimulated; and

flowing a stimulation fluid through the at least one port so as to stimulate the first section of the subterranean formation.

38. (Original) The method of claim 37 further comprising the step of pumping a second fluid into an annulus, wherein the annulus is formed between a wall of the well bore and the drill string.

39. (Original) The method of claim 37 further comprising the step of shutting an annulus, wherein the annulus is formed between a wall of the well bore and a drill string that is disposed in the well bore.

40. (Original) The method of claim 37 further comprising the step of introducing a cleaning fluid into the well bore.

41. (Previously Presented) The method of claim 37 wherein step (b) includes the use of a drilling fluid

42. (Canceled)

43. (Previously Presented) The method of claim 37 wherein the stimulation fluid comprises an unweighted drilling fluid.

44. (Currently Amended) The method of claim 37 wherein the stimulation fluid comprises at least one ~~an~~-additive selected from the group consisting of: an abrasive, a proppant, an acid, a chemical, and any mixture[[s]] thereof.

45. (Currently Amended) The method of claim 37 wherein the stimulation fluid comprises at least one fluid selected from the group consisting of: is an aqueous-based fluid, a gas, ~~or~~ and a foamed fluid.

46. (Original) The method of claim 37 wherein a fluid jet forming nozzle is connected within the at least one port.

47. (Original) The method of claim 46 wherein the stimulation fluid is jetted through the fluid jet forming nozzle against the section of the subterranean formation at a pressure sufficient to form a cavity in the section of the subterranean formation.

48. (Original) The method of claim 47 further comprising the step of pumping a second fluid into an annulus to enhance the stimulation of the cavity, wherein the annulus is formed between a wall of the well bore and the drill string.

49. (Original) The method of claim 48 wherein the second fluid is pumped into the annulus at a rate sufficient to raise the ambient pressure in the well bore adjacent to the section in the subterranean formation to a level sufficient enhance the stimulation of the cavity.

50. (Original) The method of claim 47 further comprising the step of shutting an annulus, wherein the annulus is formed between a wall of the well bore and a drill string that is disposed in the well bore.

51. (Original) The method of claim 37 further comprising the step of opening the at least one port prior to flowing the stimulation fluid through the at least one port.

52. (Original) The method of claim 51 wherein the step of opening the at least one port includes a sliding sleeve.

53. (Original) The method of claim 51 wherein the step of opening the at least one port includes a mechanical-activation mechanism or a flow-activation mechanism.

54. (Previously Presented) The method of claim 37 wherein stimulating multiple sections of the subterranean formation further comprises the steps of:

positioning the stimulation tool in the well bore adjacent to a second section of the subterranean formation to be stimulated; and

flowing the stimulation fluid through the at least one port to stimulate the second section of the subterranean formation.

55. (Original) The method of claim 31 further comprising the step of sealing the section of the subterranean formation that was stimulated.

56. (Currently Amended) The method of claim 55 wherein the step of sealing the section of the subterranean formation that was stimulated includes the use of at least one material selected from the group consisting of: a degradable sealant, a fluid, a solid, or and any combination thereof.

57. (Previously Presented) A method of stimulating at least one section of a subterranean formation during a drilling operation comprising the steps of:

(a) providing a drill string that comprises a stimulation tool interconnected as a part of the drill string and a drill bit attached at an end of the drill string;

(b) drilling at least a portion of the well bore using the drill string, wherein the well bore at least penetrates a section of the subterranean formation;

(c) stimulating a section of the subterranean formation using the stimulation tool, the stimulating comprising jetting a stimulation fluid through at least one fluid jet forming

nozzle in the stimulation tool against the section of the subterranean formation at a pressure sufficient to create at least one fracture in the section of the subterranean formation; and

(d) removing the drill string from the well bore.

58. (Previously Presented) The method of claim 57 wherein stimulating the section of the subterranean formation comprises pumping a second fluid into an annulus between the drill string and the subterranean formation at a pressure sufficient to enlarge the at least one fracture in the section of the subterranean formation.

59. (Previously Presented) The method of claim 57 wherein stimulating the section of the subterranean formation comprises pumping a second fluid into an annulus between the drill string and the subterranean formation at a pressure sufficient to raise the ambient pressure in the well bore adjacent the section of the formation to a level sufficient to enlarge the at least one fracture in the section of the subterranean formation.

60. (Previously Presented) The method of claim 57 wherein stimulating the section of the subterranean formation comprises pumping a second fluid into an annulus between the drill string and the subterranean formation at a pressure sufficient to enlarge the at least one fracture in the section of the subterranean formation, wherein the second fluid is introduced into the annulus while the stimulating fluid is jetted against the section of the subterranean formation.

61. (Previously Presented) The method of claim 1 wherein stimulating the section of the subterranean formation comprising jetting the fluid against the subterranean formation to fracture the section of the subterranean formation by ambient pressure plus stagnation pressure within the at least one cavity.

62. (Previously Presented) The method of claim 61 wherein stimulating the section of the subterranean formation comprises pumping a second fluid into an annulus between the drill string and the subterranean formation at a pressure sufficient to enlarge the fracture in the section of the subterranean formation.

63. (Previously Presented) The method of claim 1 wherein stimulating the section of the subterranean formation comprises pumping a second fluid into an annulus between the drill string and the subterranean formation at a pressure sufficient to enlarge the at least one cavity in the section of the subterranean formation.

64. (Previously Presented) The method of claim 1 wherein stimulating the section of the subterranean formation comprises pumping a second fluid into an annulus between the drill string and the subterranean formation at a pressure sufficient to raise the ambient pressure in the well bore adjacent the section of the formation to a level sufficient to enlarge the at least one cavity in the section of the subterranean formation.

65. (Previously Presented) The method of claim 57 wherein stimulating the section of the subterranean formation comprises pumping a second fluid into an annulus between the drill string and the subterranean formation at a pressure sufficient to enlarge the at least one cavity in the section of the subterranean formation, wherein the second fluid is introduced into the annulus while the stimulation fluid is jetted against the section of the subterranean formation.